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	Application No.	Applicant(s)	
61	09/893,588	09/893,588 KUMAMOTO, TAKASHI	
Notice of Allowability	Examiner	Art Unit	7.11
	Alonzo Chambliss	2827	
The MAILING DATE of this communication and All claims being allowable, PROSECUTION ON THE MERITS therewith (or previously mailed), a Notice of Allowance (PTOLNOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	IS (OR REMAINS) CLOSED in the 85) or other appropriate communic FRIGHTS . This application is sub	is application. If not included cation will be mailed in due c	d ourse. THIS
1. \boxtimes This communication is responsive to $4/19/04$.			
2. 🔀 The allowed claim(s) is/are <u>3,5-10, 13, 14, 16-22, 25, 2</u>	6, and 2834.		
3. $igtimes$ The drawings filed on are accepted by the Exam	iner.		
4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents h 2. Certified copies of the priority documents h 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which is a company of the Notice of Draftsperior (a) including changes required by the Notice of Draftsperior (b) hereto or 2) to Paper No./Mail Date 1/9 (b) including changes required by the attached Examin Paper No./Mail Date Identifying indicia such as the application number (see 37 CF)	ave been received. ave been received in Application of the documents have been received in Application of the communication to file a submitted. Note the attached EXAMI gives reason(s) why the oath or demust be submitted. Derson's Patent Drawing Review (1/03. Der's Amendment / Comment or in the communication on the communication of the comm	No this national stage application of the law in the requirement of the control of the Office action of the Irawings in the front (not the Irawings in the front (not the Irawings in the front (not the Irawings in Irawings in the Irawings in Iraw	uirements OTICE OF
each sheet. Replacement sheet(s) should be labeled as such 7. DEPOSIT OF and/or INFORMATION about the de	in the header according to 37 CFR 1	.121(d). IAL must be submitted. No	•
attached Examiner's comment regarding REQUIREMEN	NT FOR THE DEPOSIT OF BIOLO	OGICAL MATERIAL.	
Attachment(s)	r.		
1. Notice of References Cited (PTO-892)		mal Patent Application (PTO	·152)
2. Notice of Draftperson's Patent Drawing Review (PTO-94		mary (PTO-413), il Date <u>6/22/04</u> .	
 Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date 			
4. Examiner's Comment Regarding Requirement for Depos	it 8. ⊠ Examiner's Sta	tement of Reasons for Allow	/ance
of Biological Material	9. Other		

Alonzo Chambliss Primary Examiner Art Unit: 2827

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DETAILED ACTION

1. The amendment filed on 4/19/04 has been fully considered and made of record in Paper No. 11.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Plimier on June 22, 2004.

3. The application has been amended as follow:

CLAIMS:

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Cancel claims 4, 15, and 27.

In claim 5, line 1, delete " 4 " and insert instead -- 3 --;

In claim 6, line 1, delete " 4 " and insert instead -- 3 --;

In claim 7, line 1, delete " 4 " and insert instead -- 3 --;

In claim 8, line 1, delete " 4 " and insert instead -- 3 --;

In claim 9, line 1, delete " 4 " and insert instead -- 3 --;

In claim 10, line 1, delete " 4 " and insert instead -- 3 --;

In claim 16, line 1, delete " 4 " and insert instead -- 13 --;

In claim 17, line 1, delete " 4 " and insert instead -- 13 --;
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In claim 18, line 1, delete "4" and insert instead -- 13 --;
In claim 19, line 1, delete "4" and insert instead -- 13 --;
In claim 20, line 1, delete "4" and insert instead -- 13 --;
In claim 21, line 1, delete "4" and insert instead -- 13 --;
In claim 22, line 1, delete "4" and insert instead -- 13 --;
In claim 28, line 1, delete "4" and insert instead -- 25 --;
In claim 29, line 1, delete "4" and insert instead -- 25 --;
In claim 30, line 1, delete "4" and insert instead -- 25 --;
In claim 31, line 1, delete "4" and insert instead -- 25 --;
In claim 32, line 1, delete "4" and insert instead -- 25 --;
In claim 33, line 1, delete "4" and insert instead -- 25 --;
In claim 34, line 1, delete "4" and insert instead -- 25 --;
In claim 34, line 1, delete "4" and insert instead -- 25 --;
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Allowable Subject Matter

4. The following is a statement of reasons for the indication of allowance subject matter: the prior art of record does not teach or suggest the combination of a support layer on a bumped die or bumped wafer, wherein the support layer has an underfill layer both to provide wafer support and as an underfill material. The underfill layer covering at least a majority of the bump–bodies surface, while leaving a remainder portion of the bump bodies exposed. An adhesive protection tape include a flexible conforming layer applied to the underfill layer, wherein the conforming layer to cover the remainder portion of the bump-bodies not covered by the under-fill layer in claims 3, 13, and 25.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning the communication or earlier communications from the examiner should be directed to Alonzo Chambliss whose telephone number is (703) 306-9143. The fax phone number for the Group is (703) 308-772 or 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 308-7956.

AC/June 22, 2004

Alonzo Chambliss
Primary Patent Examiner

Art Unit 2827